

## CLAIMS

1) A device (1; 100; 200; 300) for protecting the bodywork (C) of a motor vehicle (A<sub>1</sub>; A<sub>2</sub>; A<sub>3</sub>; A<sub>4</sub>), comprising:

- at least a flexible laminar element (2, 3; 101; 201; 301, 302), able to be laid out to cover said motor vehicle (A<sub>1</sub>; A<sub>2</sub>; A<sub>3</sub>; A<sub>4</sub>);
  - at least a mainly longitudinal developed housing structure (4; 102; 202; 303; 400; 500), able to contain said laminar element (2, 3; 101; 201; 301, 302) when it is in inoperative conditions, provided with:
    - connection means (5; 103; 203) to said motor vehicle (A<sub>1</sub>; A<sub>2</sub>; A<sub>3</sub>; A<sub>4</sub>);
    - at least a longitudinal slot (9) for the passage of said laminar element (2, 3; 101; 201; 301, 302) from the interior to the outside of said housing structure (4; 102; 202; 303; 400; 500); and vice versa;
    - handling means (6), coupled with said laminar element (2, 3; 101; 201; 301, 302) and available to the user, to extract said laminar element (2, 3; 101; 201; 301, 302) from said housing structure (4; 102; 202; 303; 400; 500) and to dispose it to cover said motor vehicle (A<sub>1</sub>; A<sub>2</sub>; A<sub>3</sub>; A<sub>4</sub>);
    - hooking means (7), coupled with said handling means (6), able to connect said laid out laminar element (2, 3; 101; 201; 301, 302) to said motor vehicle (A<sub>1</sub>; A<sub>2</sub>; A<sub>3</sub>; A<sub>4</sub>),
- characterized in that** it comprises cleaning means (25), coupled with said housing structure (4; 102; 202; 303; 400; 500) at said longitudinal slot (9), able to remove the impurities from said laminar element (2, 3; 101; 201; 301, 302) during its movement.

2) The device (1; 100; 200; 300) according to claim 1), **characterized in that** said cleaning means (25) are applied to a support bar (26) connected to the inner surface (4c) of said housing structure (4; 102; 202; 303; 400; 500) through joining means.

3) The device (1; 100; 200; 300) according to claim 1), **characterized in that** said cleaning means (25) consist of a strip of woven wires (27), soaked with silicone to minimize light passage, to resist temperature variations and to make it waterproof.

4) The device (1; 100; 200; 300) according to claim 1), **characterized in that** said housing structure (4; 102; 202; 303; 400; 500) consists of a shell (8) having a cross sectional profile of essentially elliptic shape, to avoid dust or impurities of other kind to deposit on the outer surface

(4a; 102a; 202a) of said housing structure (4; 102; 202; 303; 400; 500).

5        5) The device (1; 100; 200; 300) according to claim 4), **characterized in that** said shell (8) is composed by two half-shells (81, 82) disposed side by side at the longitudinal symmetry axis (Z) of said housing structure (4; 102; 202; 303; 400; 500).

10        6) The device (1; 100; 200; 300) according to claim 5), **characterized in that** said laminar element (2, 3; 101; 201; 301, 302) has an end fixed to a support element (10, 11; 304), disposed in said housing structure (4; 102; 202; 303; 400; 500), which is developed according to the longitudinal symmetry axis (Z) of said housing structure (4; 102; 202; 303; 400; 500) for a length substantially equal to the length of said longitudinal slot (9).

15        7) The device (1; 100; 200) according to claim 6), **characterized in that** said support element (10, 11) consists of a winding cylinder (12, 13) around which said laminar element (2, 3; 101; 201; 301, 302) is wound/unwound.

8) The device (300) according to claim 6), **characterized in that** said support element (304) consists of the inner surface (303c) of said housing structure (303).

20        9) The device (1; 100; 200) according to claim 7), **characterized in that** said laminar element (2, 3; 101; 201) consists of a roll-up cloth (14, 15).

10) The device (300) according to claim 8), **characterized in that** said laminar element (301, 302) consists of a pliant cloth (305, 306) according to a bellows configuration.

25        11) The device (1; 100; 200; 300) according to claim 7), **characterized in that** it comprises elastic means (16) disposed in said housing structure (4; 102; 202; 303; 400; 500), able to maintain in tension said laminar element (2, 3; 101; 201; 301, 302).

30        12) The device (1; 100; 200; 300) according to claim 11), **characterized in that** said elastic means (16) are placed at least at an end (4b) of said housing structure (4; 102; 202; 303; 400; 500).

35        13) The device (1; 100; 200; 300) according to claim 1), **characterized in that** said housing structure (4; 102; 202; 303; 400; 500) is provided with a pair of shaped brackets (17; 108), each of them being laterally coupled with said housing structure (4; 102; 202; 303; 400; 500) through joining means (109).

14) The device (1; 100; 200; 300) according to claim 13), **characterized in that** each of said shaped brackets (17) is externally provided with a cap (18, 19).

15) The device (1; 300) according to claim 4), **characterized in that** said connection means (5) comprise at least a magnet (20, 21), coupled with the roof ( $T_1$ ) or with the front bumper ( $U_a$ ) and/or the rear bumper ( $U_p$ ) of said motor vehicle ( $A_1$ ;  $A_4$ ) and joined through first fixing means (22) to said outer surface (4a) of said housing structure (4; 303; 500).

16) The device (100) according to claim 4), **characterized in that** said connection means (103) comprise at least a flexible belt (104, 105), coupled with said housing structure (102; 400) and joined in a stable but removable way to the upper post ( $M_2$ ) of the door ( $P_2$ ), to the bonnet (F) or to the boot (B) of said motor vehicle ( $A_2$ ), and at least a bearing pad (106, 107), coupled with the roof ( $T_2$ ), with the bonnet (F) or with the boot (B) of said motor vehicle ( $A_2$ ), upon which said outer surface (102a) of said housing structure (102; 400) is disposed.

17) The device (200) according to claim 4), **characterized in that** said connection means (203) comprise at least a hollow body (204), connected through second fixing means to said outer surface (202a) of said housing structure (202) to define at least a space (205) in which at least a shaped bar (206), provided with at least an end (206a) rigidly fixed to the vertical post ( $M_3$ ) of said motor vehicle ( $A_3$ ), is inserted.

18) The device (1; 100; 200; 300) according to claim 1), **characterized in that** said handling means (6) consist of a tubular element (28, 30), applied to the free end (2a) of said laminar element (2, 3; 101; 201; 301, 302) and internally provided with an elastic wire (29, 31) to whose ends (29a, 29b) said hooking means (7) are applied.

19) The device (1; 100; 200; 300) according to claim 1), **characterized in that** said hooking means (7) consist of hooks (32, 33) able to be joined with said bodywork (C) of said motor vehicle ( $A_1$ ;  $A_2$ ;  $A_3$ ;  $A_4$ ).

20) The device according to claim 1), **characterized in that** said hooking means consist of magnetic elements able to be positioned on said bodywork of said motor vehicle.

21) The device (200; 300) according to claim 1), **characterized in that** it comprises a heating system of said laminar element (201; 301, 302),

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coupled with feeding means and able to prevent ice formation on said laminar element (201; 301, 302).

22) The device (200; 300) according to claim 1), **characterized in that** said flexible laminar element (201; 301, 302) is made of insulating material, able to resist low temperatures during the cold season.

23) The device (1; 100) according to claim 1), **characterized in that** said flexible laminar element (2, 3; 101) is made of a material able to resist high temperatures during the hot season.

24) A device (1; 100; 200; 300) for protecting the bodywork (C) of a motor vehicle (A<sub>1</sub>; A<sub>2</sub>; A<sub>3</sub>; A<sub>4</sub>), comprising:

- at least a flexible laminar element (2, 3; 101; 201; 301, 302), able to be laid out to cover said motor vehicle (A<sub>1</sub>; A<sub>2</sub>; A<sub>3</sub>; A<sub>4</sub>);
- at least a mainly longitudinal developed housing structure (4; 102; 202; 303; 400; 500), able to contain said laminar element (2, 3; 101; 201; 301, 302) when it is in inoperative conditions, provided with:
  - connection means (5; 103; 203) to said motor vehicle (A<sub>1</sub>; A<sub>2</sub>; A<sub>3</sub>; A<sub>4</sub>);
  - at least a longitudinal slot (9) for the passage of said laminar element (2, 3; 101; 201; 301, 302) from the interior to the outside of said housing structure (4; 102; 202; 303; 400; 500), and vice versa;
- handling means (6), coupled with said laminar element (2, 3; 101; 201; 301, 302) and available to the user, to extract said laminar element (2, 3; 101; 201; 301, 302) from said housing structure (4; 102; 202; 303; 400; 500) and to dispose it to cover said motor vehicle (A<sub>1</sub>; A<sub>2</sub>; A<sub>3</sub>; A<sub>4</sub>);
- hooking means (7), coupled with said handling means (6), able to connect said laid out laminar element (2, 3; 101; 201; 301, 302) to said motor vehicle (A<sub>1</sub>; A<sub>2</sub>; A<sub>3</sub>; A<sub>4</sub>),

**characterized in that** said laminar element is an advertising support.

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